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TI Building materials

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DT Patent

LA Polish

IC C04B019-04; C04B023-04; C04B031-32

CC 58-5 (Cement and Concrete Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 100776	P	19781130	PL 1977-195252	19770110
AB	Building materials are prepd. from blast-furnace slag, fly ash, silicate, and 11-13 wt.% paper industry waste contg. cellulose and lignin. The main components of the building material are SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , and Fe <sub>2</sub> O <sub>3</sub> . A suitable compn. contains K silicate 47, slag 21, fly ash 21, and paper industry waste 11 wt.%. The materials have tensile strength 106-120 kg/cm <sup>2</sup> , shear resistance 192-260 kg/cm <sup>2</sup> , and porosity 28-33%. The products can be used for thermal and sound insulators.				
ST	slag ash silicate insulator; sound insulator waste material; thermal insulator waste material				
IT	Sound insulators				
	Thermal insulators				
	(potassium silicate, contg. blast-furnace slags and fly ash and waste paper)				

1 me source

fly ash → "vitreous silicate"

K silicate → 47